

M 5.6, 84 km SE of Pangai, Tonga

Origin Time: 2023-12-23 23:44:49 UTC (Sat 11:44:49 local)
Location: 20.4153° S 173.8609° W Depth: 10.0 km

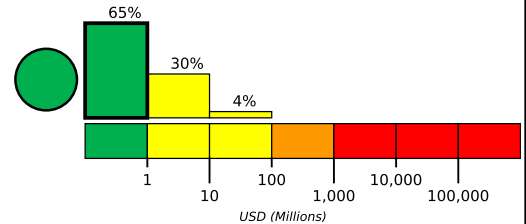
PAGER Version 4

Created: 2 weeks, 6 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

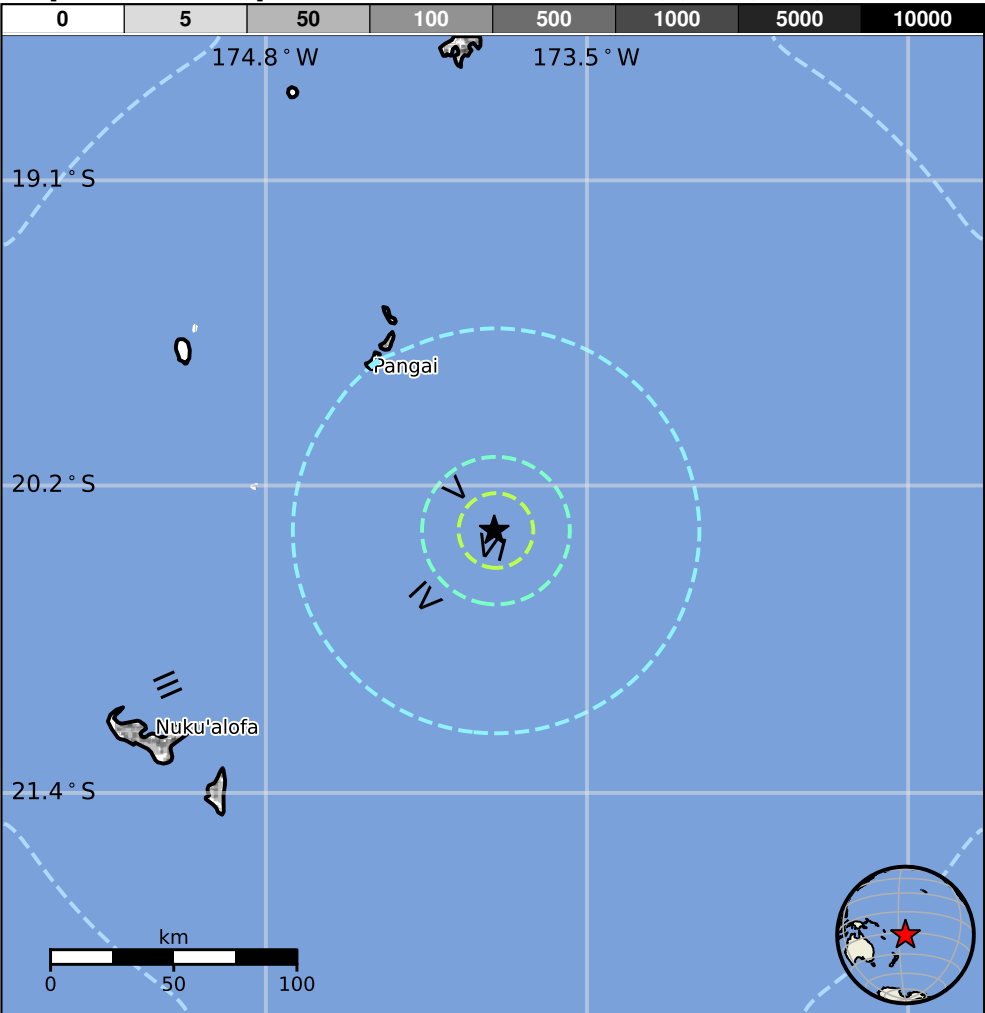


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	102k	5k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1977-06-22	338	8.0	VII(47k)	0
1983-03-21	192	6.7	VII(53k)	—
2006-05-03	38	8.0	VIII(7k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Pangai	2k
III	Nuku'alofa	22k
III	'Ohonua	1k
III	Vaini	3k
III	Haveluloto	3k
III	Neiafu	4k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ii5i#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ii5i